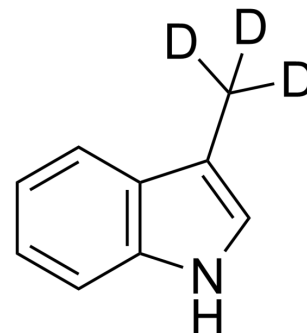


Skatole-d₃

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-W007355S | | |
| CAS No.: | 111399-60-1 | | |
| Molecular Formula: | C ₉ H ₆ D ₃ N | | |
| Molecular Weight: | 134.19 | | |
| Target: | p38 MAPK; Fungal; Bacterial; Autophagy; Aryl Hydrocarbon Receptor; Endogenous Metabolite | | |
| Pathway: | MAPK/ERK Pathway; Anti-infection; Autophagy; Immunology/Inflammation; Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (372.61 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 7.4521 mL | 37.2606 mL | 74.5212 mL |
| | 5 mM | 1.4904 mL | 7.4521 mL | 14.9042 mL |
| | 10 mM | 0.7452 mL | 3.7261 mL | 7.4521 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Skatole-d₃ is the deuterium labeled Skatole. Skatole is produced by intestinal bacteria, regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Kurata K, et al. Skatole regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38. *Biochem Biophys Res Commun*. 2019 Mar 19;510(4):649-655.

Caution: Product has not been fully validated for medical applications. For research use only.

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